

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference A 2126	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. PCT/EP2005/002975	International filing date (day/month/year) 21/03/2005	(Earliest) Priority Date (day/month/year) 22/03/2004
Applicant GOLDSCHMIDT GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/002975

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/44 C12Q1/04 C12Q1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LANGLET S ET AL: "A new gel tube method for the direct detection, identification and susceptibility testing of bacteria in clinical samples"</p> <p>FEMS MICROBIOLOGY LETTERS, vol. 170, no. 1, 1 January 1999 (1999-01-01), pages 229-235, XP002343236</p> <p>ISSN: 0378-1097</p> <p>the whole document</p> <p>page 229, column 2</p> <p>page 231</p> <p>figure 1</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-/--</p>	<p>1-9,</p> <p>15-26,</p> <p>28,29</p>



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

2 September 2005

Date of mailing of the international search report

19/09/2005

Name and mailing address of the ISA

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Jenkins, G

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/002975

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 098 830 A (BAR-OR ET AL) 24 March 1992 (1992-03-24) the whole document columns 3-5 claim 1 -----	1-9, 15-26, 28,29
X	US 4 603 108 A (BASCOMB ET AL) 29 July 1986 (1986-07-29) the whole document column 3, line 4 - line 20 column 4, line 64 - line 69 -----	1-9, 15-26, 28,29
X	DE 196 08 320 A1 (BIOSQUANT GMBH, 15344 STRAUSBERG, DE) 28 August 1997 (1997-08-28) the whole document column 2, line 67 - column 3, line 3 -----	1-9, 15-26, 28,29
X	US 2004/048326 A1 (ROGER-DALBERT CELINE) 11 March 2004 (2004-03-11) the whole document paragraphs '0021!', '0028!; examples 1,2 -----	1-9,11, 15-26, 28,29 10
X	US 2002/031795 A1 (JAMES ARTHUR ET AL) 14 March 2002 (2002-03-14) paragraph '0027! - paragraph '0029! -----	1-9,11, 15-26, 28,29
X	WEI G X ET AL: "Proteolysis and utilization of albumin by enrichment cultures of subgingival microbiota" ORAL MICROBIOLOGY AND IMMUNOLOGY, vol. 14, no. 6, December 1999 (1999-12), pages 348-351, XP002343237 ISSN: 0902-0055 the whole document page 349, column 2, paragraph 4 -----	1-9, 14-26, 28,29
X	LAGARDE D ET AL: "High-throughput screening of thermostable esterases for industrial bioconversions" ORGANIC PROCESS RESEARCH AND DEVELOPMENT, CAMBRIDGE, GB, vol. 6, no. 4, 27 June 2002 (2002-06-27), pages 441-445, XP002288681 the whole document page 442, column 2 ----- -/--	1-13, 15-29

International Application No
PCT/EP2005/002975

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 200308 Derwent Publications Ltd., London, GB; Class B05, AN 2003-084866 XP002288684 & JP 2002 326942 A (NONOGAWA SHOJI KK) 15 November 2002 (2002-11-15) the whole document -----	1-9, 11, 15-26, 28, 29
X	US 2003/199017 A1 (REYMOND JEAN-LOUIS ET AL) 23 October 2003 (2003-10-23)	25, 26
Y	the whole document paragraph '0199! -----	10
X	JAEGER K-E ET AL: "BACTERIAL LIPASES" FEMS MICROBIOLOGY REVIEWS, ELSEVIER, AMSTERDAM, NL, vol. 15, no. 1, January 1994 (1994-01), pages 29-63, XP000490500 ISSN: 0168-6445	25, 26
A	page 34, column 2 -----	10
P, X	GROGNUX J ET AL: "Universal chromogenic substrates for lipases and esterases" TETRAHEDRON: ASYMMETRY, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 15, no. 18, 20 September 2004 (2004-09-20), pages 2981-2989, XP004575083 ISSN: 0957-4166 the whole document scheme 1 -----	25-27

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

The subject-matter of independent claim 1 and all claims dependent thereon involves the step "collecting a sample". The scope of this step covers both a method of treatment of the animal or human body by surgery (e.g. collecting swabs from internal body parts, blood samples etc) and a method of diagnosis practised on the human or animal body. Furthermore, the scope of claims 17-19,21-24,29 covers administering test therapeutic compounds to the human or animal body. This both encompasses a method of treatment of the animal or human body by surgery (administering the compounds) and by therapy (the production of therapeutic effects). However, the search was not correspondingly limited.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2005/002975

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 10-13,27 'full!', 1-9,14-26,28,29 'partial!

2-hydroxy-4-p-nitrophenoxy-butyl decanoate / hexanoate for detecting lipase activity in skin and Bacillus microorganisms without previously culturing the microorganisms.

2. claims: 14 'full!', 1-9,14-26,28,29 'partial!

casein-resorufin for detecting protease activity in Bacillus microorganisms without previously culturing the microorganisms.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002975

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5098830	A	24-03-1992	AU 655594 B2 AU 8328091 A CA 2065401 A1 DE 69114457 D1 DE 69114457 T2 EP 0491936 A1 ES 2078538 T3 MX 9100216 A1 NO 920993 A WO 9201373 A1 ZA 9105312 A	05-01-1995 18-02-1992 17-01-1992 14-12-1995 21-03-1996 01-07-1992 16-12-1995 28-02-1992 15-05-1992 06-02-1992 25-03-1992
US 4603108	A	29-07-1986	DE 3070143 D1 DK 556780 A ,B, EP 0018825 A1 WO 8002433 A1 GB 2048302 A ,B JP 3021160 B JP 56500399 T	28-03-1985 30-12-1980 12-11-1980 13-11-1980 10-12-1980 22-03-1991 02-04-1981
DE 19608320	A1	28-08-1997	NONE	
US 2004048326	A1	11-03-2004	FR 2816957 A1 AU 2198802 A BR 0115441 A EP 1334204 A1 WO 0240704 A1 JP 2004518418 T	24-05-2002 27-05-2002 06-01-2004 13-08-2003 23-05-2002 24-06-2004
US 2002031795	A1	14-03-2002	FR 2785620 A1 AT 266101 T AU 762575 B2 AU 1163900 A CA 2348710 A1 DE 69917061 D1 DE 69917061 T2 EP 1124986 A1 ES 2221485 T3 WO 0028073 A1 JP 2002529478 T	12-05-2000 15-05-2004 26-06-2003 29-05-2000 18-05-2000 09-06-2004 21-04-2005 22-08-2001 16-12-2004 18-05-2000 10-09-2002
JP 2002326942	A	15-11-2002	NONE	
US 2003199017	A1	23-10-2003	FR 2809819 A1 FR 2809820 A1 AU 7416401 A CA 2411315 A1 EP 1285086 A2 WO 0192563 A2	07-12-2001 07-12-2001 11-12-2001 06-12-2001 26-02-2003 06-12-2001